

TABLE 58

Federal obligations for research and experimental development, by state or location and performer: FY 2021

(Dollars in thousands)

State or location	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
All locations	189,398,467	71,665,012	14,791,390	50,224,547	39,766,441	11,984,913	966,164
Alabama	3,966,904	1,969,225	0	1,444,178	499,203	40,455	13,844
Alaska	322,626	108,294	0	76,522	115,689	13,675	8,446
Arizona	1,663,321	188,312	0	828,090	549,334	84,104	13,481
Arkansas	300,252	66,170	0	86,351	126,768	11,006	9,956
California	22,618,185	3,031,984	4,922,483	8,004,585	5,260,830	1,327,279	71,024
Colorado	6,229,985	440,675	562,842	3,864,952	857,333	487,681	16,502
Connecticut	2,597,155	122,887	0	1,635,598	782,764	17,317	38,588
Delaware	306,913	3,322	5,271	49,600	238,890	7,805	2,024
District of Columbia	39,038,621	35,151,327	190,261	898,844	274,356	2,514,296	9,536
Florida	4,094,695	869,515	9,988	1,911,274	1,045,856	236,240	21,823
Georgia	1,653,954	262,298	1,227	183,534	1,133,753	42,809	30,334
Hawaii	485,890	202,246	0	97,776	163,835	19,686	2,348
Idaho	672,104	47,872	286,824	262,764	62,150	3,851	8,643
Illinois	3,532,719	227,776	955,130	649,247	1,531,226	160,557	8,783
Indiana	1,080,842	192,813	0	176,898	695,567	1,985	13,579
Iowa	686,259	86,138	30,517	215,567	336,602	1,441	15,995
Kansas	413,888	110,996	0	27,976	269,284	2,751	2,881
Kentucky	542,299	167,701	0	41,637	313,709	7,430	11,822
Louisiana	456,813	65,636	0	91,297	266,781	7,721	25,378
Maine	248,866	16,710	2,040	55,631	58,224	108,068	8,193
Maryland	17,564,594	10,740,753	681,970	3,108,944	2,598,098	395,409	39,419
Massachusetts	9,496,432	550,803	1,872,104	2,950,187	2,002,466	2,110,156	10,716
Michigan	2,070,494	323,683	*	445,953	1,211,927	82,665	6,264
Minnesota	1,144,953	85,358	0	215,833	497,754	317,338	28,671
Mississippi	454,921	234,025	0	37,985	175,437	4,825	2,650
Missouri	2,058,775	160,622	0	953,196	884,718	46,466	13,773
Montana	287,208	77,990	0	29,151	167,255	2,786	10,026
Nebraska	302,638	46,772	0	20,523	213,769	18,757	2,816
Nevada	551,831	50,478	0	391,891	97,367	4,874	7,220
New Hampshire	522,631	19,404	0	279,670	212,380	9,988	1,189
New Jersey	3,398,171	1,057,007	126,515	1,591,296	554,091	47,339	21,924
New Mexico	3,881,144	1,024,942	1,979,499	641,103	199,407	32,440	3,752
New York	6,830,934	222,856	517,967	1,699,512	3,735,477	506,968	148,154
North Carolina	3,620,371	383,630	0	940,096	1,824,120	447,051	25,473
North Dakota	168,097	41,749	0	21,237	94,334	3,349	7,428
Ohio	3,856,489	1,107,733	26,812	1,344,147	1,028,125	328,821	20,850
Oklahoma	1,505,105	1,139,039	0	120,656	198,277	41,334	5,799
Oregon	1,069,952	286,944	1,782	95,666	654,140	23,369	8,051
Pennsylvania	4,544,785	441,516	64,174	1,355,538	2,323,389	341,498	18,671
Rhode Island	866,046	272,948	3,253	189,776	304,079	85,630	10,360
South Carolina	1,434,459	147,877	58,903	627,813	347,098	235,479	17,289
South Dakota	132,148	23,548	0	24,564	37,755	14,181	32,100
Tennessee	3,461,773	1,124,264	1,160,050	337,386	360,163	468,898	11,010
Texas	6,131,234	900,062	65,396	2,563,779	2,364,744	174,043	63,210
Utah	2,439,690	208,741	206,351	1,484,197	523,742	11,761	4,897
Vermont	244,489	14,305	0	58,473	162,040	127	9,543

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		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Virginia	9,740,743	2,066,103	580,235	6,385,232	490,072	208,268	10,833
Washington	3,735,831	365,155	470,081	1,105,503	912,140	828,150	54,801
West Virginia	199,238	43,454	0	43,846	85,262	14,850	11,826
Wisconsin	989,462	63,909	0	122,281	744,515	46,037	12,720
Wyoming	196,837	49,421	5,170	71,013	65,688	2,155	3,390
Outlying areas	228,980	39,463	0	48,315	109,160	24,042	7,999
Puerto Rico	120,136	29,058	0	3,528	84,957	*	2,586
Other areas ^c	108,844	10,405	0	44,788	24,203	24,035	5,413
Offices abroad ^d	179,044	106,203	0	66,029	5,294	1,358	159
Undistributed ^e	5,176,678	4,912,358	4,544	251,431	0	8,344	0

* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, as well as actual federal performance.^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.^c Includes American Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.^d Includes R&D performed or administered in foreign countries by the U.S. government and federal obligations for R&D plant located in foreign countries.^e Department of Defense (DOD) obligations for which the location of performance is not reported.**Note(s):**

Because of rounding, detail may not add to total. As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FY 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.